

Appl. No. 10/062,584  
Amended January 5, 2004  
Reply to Office Action of Aug. 5, 2003

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/062,584  
Applicant : Backus et al  
Filed : February 2, 2002  
Title : Ultrashort Pulse Amplification in Cryogenically Cooled Amplifiers  
Group Art Unit : 2828  
Examiner : T. Nguyen  
Docket No. : C01.110

Honorable Commissioner of Patents  
Washington DC 20231

AMENDMENT

Sir:

In response to the Office Action mailed August 5, 2003 ,  
**Remarks/Arguments** are found on page 2 of this paper.

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Date: January 5, 2004

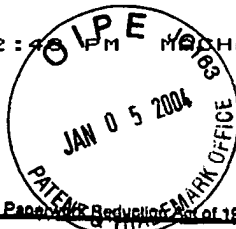
Pages, including this one: 19

To: Tuan N. Nguyen Phone: 703-872-9319 Fax: 703-872-9318	From: Michelle Mintling Phone: 303-664-4734 Fax: 303-664-4735
AMENDMENT	
Appl. No.	10/062,584
Applicant	Backus et al.
Filed	February 2, 2002
Title	Ultrashort Pulse Amplification in Cryogenically Cooled Amplifiers
GAU	2828
Examiner	T. Nguyen
Docket	C01.110
<i>mb</i>	

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<b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing)	Application Number	10/062,584	
	Filing Date	February 2, 2002	
	First Named Inventor	Backus et al.	
	Art Unit	2828	
	Examiner Name	Tuan N. Nguyen	
Total Number of Pages in This Submission	18	Attorney Docket Number	C01.110

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input checked="" type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input checked="" type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input checked="" type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input checked="" type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
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<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application	Remarks	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.63		

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual name	Jennifer L. Bales
Signature	
Date	January 5, 2004

**CERTIFICATE OF TRANSMISSION/MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Michelle Mintling		
Signature		Date	January 5, 2004

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# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT** (\$ 210.00

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**Complete if Known**

Application Number	10/062,584
Filing Date	February 2, 2002
First Named Inventor	Backus et al.
Examiner Name	Tuan N. Nguyen
Art Unit	2828
Attorney Docket No.	C01.110

**METHOD OF PAYMENT (check all that apply)**
☐ Check ☒ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

 Deposit Account Number: 02-0725  
 Deposit Account Name: Jennifer L. Bales

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments  
☐ Charge any additional fee(s) or any underpayment of fee(s)  
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

**FEE CALCULATION**
**1. BASIC FILING FEE**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee	
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 180	2005 80	Provisional filing fee	
<b>SUBTOTAL (1)</b>			<b>(\$ 0.00)</b>

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

Total Claims		Extra Claims		Fee from below		Fee Paid
Independent Claims		-20** =		X		
Multiple Dependent Claims		-3** =		X		

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 86	2201 43	Independent claims in excess of 3
1203 280	2203 145	Multiple dependent claim, if not paid
1204 88	2204 43	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent

**SUBTOTAL (2)** (\$ 0.00

\*\*or number previously paid, if greater. For Reissues, see above

**FEE CALCULATION (continued)**
**3. ADDITIONAL FEES**

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	2053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 420	2252 210	Extension for reply within second month	
1253 850	2253 475	Extension for reply within third month	
1254 1,480	2254 740	Extension for reply within fourth month	
1255 2,010	2255 1,005	Extension for reply within fifth month	
1401 330	2401 165	Notice of Appeal	
1402 330	2402 165	Filing a brief in support of an appeal	
1403 280	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to Institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 665	Petition to revive - unintentional	
1501 1,330	2501 665	Utility issue fee (or reissue)	
1602 480	2502 240	Design issue fee	
1603 640	2503 320	Plant issue fee	
1480 130	1480 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1808 180	1808 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))	
1801 770	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Fee Paid

210.00

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)** (\$ 210.00

**SUBMITTED BY**

Name (Print/Type)	Jennifer L. Bales	Registration No. (Attorney/Agent)	38,070	Telephone	303-664-4734
Signature	<i>Jennifer L. Bales</i>	Date	January 5, 2004		

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